	Application No.	Applicant(s)
Notice of Allowability	10/711,141	CHEN, SHIAO-SHIEN
	Examiner	Art Unit
	Dharti H. Patel	2836
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>02/27/2006</u> .		
2. The allowed claim(s) is/are <u>1-20</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of		
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summar Paper No./Mail Da 8), 7. ☐ Examiner's Amend	ate

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The following is an examiner's statement of reasons for indicating allowance of claim 1: The acknowledged prior art teaches an electrostatic discharge protection circuit formed on a P-type substrate comprising a first power terminal; a second power terminal; a resistor connected to the first power terminal; a capacitor connected between the resistor and the second power terminal; a first p+ diffusion region in the P-type substrate connected to the second power terminal; an N-well in the P-type substrate. The prior art [US PN. 5959821] teaches a first n+ diffusion region [Fig. 6, 511] in the N-well [Fig. 6, 620] connected to the first power terminal [Fig. 6, 520] and a P-well [Fig. 6, 630] in the N-well [Fig. 6, 620]. However, the prior art does not disclose at least a second p+ diffusion in the P-well, at least a second n+ diffusion region in the Pwell connected to the first power terminal, and at least third n+ diffusion region in the P-well connected to the second power terminal; and an ESD detecting circuit connected to the first power terminal having an output terminal connected to the second p+ diffusion region, wherein the output terminal outputs signal opposite to signal received by the input terminal so as to change a voltage level of the Pwell. This feature in combination with the rest of the claim limitations is not anticipated or rendered obvious by the prior art of record.

The following is an examiner's statement of reasons for indicating allowance of claim 11: The acknowledged prior art teaches an electrostatic discharge (ESD) protection circuit formed on a P-type substrate comprising a first p+ diffusion region in the P-type substrate; an N-well in the P-type substrate.

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The prior art [US PN. 5959821] teaches a first n+ diffusion region in the N-well; a P-well in the N-well, but does not disclose an n-p-n bipolar junction transistor (BJT) formed in the P-well, wherein an equivalent circuit between a base and a emitter of the BJT is a diode without connection to any resistor in parallel. This feature in combination with the rest of the claim limitatios is not anticipated or rendered obvious by the prior art of record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dharti H. Patel whose telephone number is 571-272-8659. The examiner can normally be reached on 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 571-272-2800, Ext. 36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BRIAN SIRCUS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800